# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051820\
Data File : VN061451.D
Acq On : 19 May 2020 00:20
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** MSVOA_N
**LabSampleId :** VSTDCCC050

Quant Time: May 19 04:45:38 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
Quant Title : SW846 8260
QLast Update : Mon May 18 13:09:55 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 84 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.416 | 0.345 | 17.1 | 68 | 0.00 |
| 3 | P | Chloromethane | 0.678 | 0.628 | 7.4 | 82 | 0.00 |
| 4 | C | Vinyl Chloride | 0.970 | 0.872 | 10.1# | 76 | 0.00 |
| 5 | T | Bromomethane | 0.534 | 0.557 | -4.3 | 90 | 0.00 |
| 6 | T | Chloroethane | 0.653 | 0.624 | 4.4 | 83 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.178 | 1.245 | -5.7 | 91 | 0.00 |
| 8 | T | Diethyl Ether | 0.343 | 0.360 | -5.0 | 92 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.490 | 0.432 | 11.8 | 75 | 0.00 |
| 10 | T | Methyl Iodide | 0.595 | 0.602 | -1.2 | 89 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.086 | 0.088 | -2.3 | 83 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.513 | 0.460 | 10.3# | 80 | 0.00 |
| 13 | T | Acrolein | 0.068 | 0.059 | 13.2 | 75 | 0.00 |
| 14 | T | Allyl chloride | 0.834 | 0.758 | 9.1 | 75 | 0.00 |
| 15 | T | Acrylonitrile | 0.255 | 0.273 | -7.1 | 89 | 0.00 |
| 16 | T | Acetone | 0.228 | 0.199 | 12.7 | 84 | 0.00 |
| 17 | T | Carbon Disulfide | 1.269 | 1.118 | 11.9 | 83 | 0.00 |
| 18 | T | Methyl Acetate | 0.572 | 0.554 | 3.1 | 88 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.945 | 2.113 | -8.6 | 93 | 0.00 |
| 20 | T | Methylene Chloride | 0.613 | 0.620 | -1.1 | 88 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.591 | 0.584 | 1.2 | 84 | 0.00 |
| 22 | T | Diisopropyl ether | 1.874 | 2.020 | -7.8 | 90 | 0.00 |
| 23 | T | Vinyl Acetate | 1.490 | 1.650 | -10.7 | 91 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.093 | 1.141 | -4.4 | 87 | 0.00 |
| 25 | T | 2-Butanone | 0.340 | 0.353 | -3.8 | 88 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 1.042 | 0.878 | 15.7 | 73 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.698 | 0.748 | -7.2 | 90 | 0.00 |
| 28 | T | Bromochloromethane | 0.464 | 0.564 | -21.6 | 94 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.225 | 0.237 | -5.3 | 88 | 0.00 |
| 30 | C | Chloroform | 1.142 | 1.269 | -11.1# | 91 | 0.00 |
| 31 | T | Cyclohexane | 1.045 | 0.859 | 17.8 | 72 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.043 | 1.040 | 0.3 | 82 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.746 | 0.796 | -6.7 | 93 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 88 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.262 | 0.272 | -3.8 | 95 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.468 | 0.431 | 7.9 | 80 | 0.00 |
| 37 | T | Ethyl Acetate | 0.424 | 0.410 | 3.3 | 89 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.430 | 0.409 | 4.9 | 79 | 0.00 |
| 39 | T | Methylcyclohexane | 0.571 | 0.453 | 20.7 | 69 | 0.00 |
| 40 | TM | Benzene | 1.409 | 1.431 | -1.6 | 88 | 0.00 |
| 41 | T | Methacrylonitrile | 0.179 | 0.184 | -2.8 | 86 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.508 | 0.548 | -7.9 | 95 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.739 | 0.759 | -2.7 | 91 | 0.00 |
| 44 | TM | Trichloroethene | 0.369 | 0.372 | -0.8 | 87 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.353 | 0.375 | -6.2# | 92 | 0.00 |

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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** MSVOA_N
**LabSampleId :** VSTDCCC050

Quant Time: May 19 04:45:38 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
Quant Title : SW846 8260
QLast Update : Mon May 18 13:09:55 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.247 | 0.268 | -8.5 | 95 | 0.00 |
| 47 | T | Bromodichloromethane | 0.521 | 0.555 | -6.5 | 91 | 0.00 |
| 48 | T | Methyl methacrylate | 0.342 | 0.349 | -2.0 | 92 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.004 | 0.004 | 0.0 | 91 | 0.00 |
| 50 | S | Toluene-d8 | 1.215 | 1.174 | 3.4 | 88 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.403 | 0.423 | -5.0 | 90 | 0.00 |
| 52 | CM | Toluene | 0.905 | 0.923 | -2.0# | 87 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.571 | 0.608 | -6.5 | 90 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.607 | 0.639 | -5.3 | 92 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.342 | 0.387 | -13.2 | 96 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.535 | 0.585 | -9.3 | 92 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.591 | 0.652 | -10.3 | 94 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.235 | 0.246 | -4.7 | 91 | 0.00 |
| 59 | T | 2-Hexanone | 0.291 | 0.301 | -3.4 | 88 | 0.00 |
| 60 | T | Dibromochloromethane | 0.378 | 0.426 | -12.7 | 93 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.360 | 0.403 | -11.9 | 95 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.454 | 0.449 | 1.1 | 89 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 90 | 0.00 |
| 64 | T | Tetrachloroethene | 0.387 | 0.354 | 8.5 | 82 | 0.00 |
| 65 | PM | Chlorobenzene | 1.020 | 1.018 | 0.2 | 89 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.366 | 0.382 | -4.4 | 92 | 0.00 |
| 67 | C | Ethyl Benzene | 1.861 | 1.808 | 2.8# | 84 | 0.00 |
| 68 | T | m/p-Xylenes | 0.706 | 0.692 | 2.0 | 84 | 0.00 |
| 69 | T | o-Xylene | 0.684 | 0.680 | 0.6 | 87 | 0.00 |
| 70 | T | Styrene | 1.132 | 1.180 | -4.2 | 88 | 0.00 |
| 71 | P | Bromoform | 0.258 | 0.284 | -10.1 | 93 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 87 | 0.00 |
| 73 | T | Isopropylbenzene | 4.014 | 3.682 | 8.3 | 80 | 0.00 |
| 74 | T | N-amyl acetate | 1.469 | 1.512 | -2.9 | 90 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.104 | 1.136 | -2.9 | 90 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.073 | 0.958 | 10.7 | 80 | 0.00 |
| 77 | T | Bromobenzene | 0.871 | 0.898 | -3.1 | 90 | 0.00 |
| 78 | T | n-propylbenzene | 4.574 | 4.162 | 9.0 | 78 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.703 | 2.567 | 5.0 | 84 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.287 | 3.074 | 6.5 | 80 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.404 | 0.398 | 1.5 | 88 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.799 | 2.744 | 2.0 | 84 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.815 | 2.443 | 13.2 | 74 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.289 | 3.166 | 3.7 | 81 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.807 | 3.218 | 15.5 | 72 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.380 | 2.922 | 13.6 | 73 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.594 | 1.586 | 0.5 | 85 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.597 | 1.606 | -0.6 | 85 | 0.00 |
| 89 | T | n-Butylbenzene | 3.071 | 2.519 | 18.0 | 69 | 0.00 |

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Response via : Initial Calibration

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Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.458 | 0.411 | 10.3 | 73 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.529 | 1.560 | -2.0 | 86 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.223 | 0.231 | -3.6 | 90 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 0.829 | 0.792 | 4.5 | 77 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.368 | 0.265 | 28.0# | 61 | 0.00 |
| 95 T | Naphthalene | 2.636 | 2.805 | -6.4 | 85 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 0.825 | 0.772 | 6.4 | 78 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6